

WHAT IS CLAIMED AS NEW AND IS DESIRED TO BE SECURED BY LETTERS  
PATENT OF THE UNITED STATES IS:

1. A laminated window comprising a glass sheet and an intermediate film, wherein  
5 said film has a loss factor  $\tan \delta$  greater than 0.6 and a shear modulus  $G'$  smaller than  $2 \times 10^7$   
N/cm<sup>2</sup> in a temperature range between 10 and 60°C and in a frequency range between 50 and  
10,000 Hz.

2. A window according to claim 1, wherein said intermediate film is associated with at  
least one film of normal acoustic performance.

3. A window according to claim 2, wherein the intermediate film is a thermoplastic  
10 acrylic polymer film 0.05 to 1.0 mm thick, and wherein this film is joined to a glass sheet  
with interposition of a polyester film 0.01 to 0.1 mm thick, and a thermoplastic cement film  
0.3 to 0.8 mm thick.

4. A window according to claim 3, comprising two glass sheets each of which are  
15 respectively joined to the thermoplastic acrylic film by said thermoplastic cement film and a  
polyester film.

5. A window according to claim 1, further comprising a thermoplastic cement film, a  
polyester film interposed between the thermoplastic cement film and the intermediate film,  
and a polyester film juxtaposed on the other face of the intermediate film and provided on its  
20 free surface with an abrasion-resistant layer.

6. A window according to claim 1, wherein the intermediate film comprises  
viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus  $G'$   
between  $10^{4.5}$  Pa at 60°C and  $10^{6.5}$  Pa at 0°C as well as a loss factor  $\tan \delta$  between  
approximately 0.8 and 1 in a temperature range of 0 to 60°C.

7. A window according to claim 2, wherein the intermediate film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus  $G'$  between  $10^{4.5}$  Pa at  $60^{\circ}\text{C}$  and  $10^{6.5}$  Pa at  $0^{\circ}\text{C}$  as well as a loss factor  $\tan \delta$  between approximately 0.8 and 1 in a temperature range of 0 to  $60^{\circ}\text{C}$ .

5 8. A window according to claim 3, wherein the intermediate film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus  $G'$  between  $10^{4.5}$  Pa at  $60^{\circ}\text{C}$  and  $10^{6.5}$  Pa at  $0^{\circ}\text{C}$  as well as a loss factor  $\tan \delta$  between approximately 0.8 and 1 in a temperature range of 0 to  $60^{\circ}\text{C}$ .

10 9. A window according to claim 4, wherein the intermediate film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus  $G'$  between  $10^{4.5}$  Pa at  $60^{\circ}\text{C}$  and  $10^{6.5}$  Pa at  $0^{\circ}\text{C}$  as well as a loss factor  $\tan \delta$  between approximately 0.8 and 1 in a temperature range of 0 to  $60^{\circ}\text{C}$ .

15 10. A window according to claim 5, wherein the intermediate film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus  $G'$  between  $10^{4.5}$  Pa at  $60^{\circ}\text{C}$  and  $10^{6.5}$  Pa at  $0^{\circ}\text{C}$  as well as a loss factor  $\tan \delta$  between approximately 0.8 and 1 in a temperature range of 0 to  $60^{\circ}\text{C}$ .

11. A window according to Claim 3, wherein said polyester film is a polyethylene terephthalate film.

20 12. A window according to claim 1, wherein one of the layers of the laminated window is provided with a layer that reflects infrared radiation.

13. A film designed to be used as an intermediate layer in a soundproofing laminated window, said film having a loss factor  $\tan \delta$  greater than 0.6 and a shear modulus  $G'$  smaller than  $2 \times 10^7 \text{ N/cm}^2$  in a temperature range between 10 and  $60^{\circ}\text{C}$  and in a frequency range between 50 and 10,000 Hz.

14. A film according to claim 13, wherein said film is associated with at least one film of normal acoustic performance.

15. A film according to claim 14, wherein said film is a thermoplastic acrylic polymer film 0.05 to 1.0 mm thick, and wherein said film is joined to at least one glass sheet with interposition of a polyester film 0.01 to 0.1 mm thick and a thermoplastic cement film 0.3 to 0.8 mm thick.

16. A film according to claim 15, wherein the thermoplastic film comprises viscoelastic polymer made of acrylic polymer without plasticizer having a shear modulus  $G'$  between  $10^{4.5}$  Pa at  $60^{\circ}\text{C}$  and  $10^{6.5}$  Pa at  $0^{\circ}\text{C}$ , as well as a loss factor  $\tan \delta$  between approximately 0.8 and 1 in a temperature range of 0 to  $60^{\circ}\text{C}$ .

17. A film according to claim 13, wherein said film comprises plasticizers and polyvinylacetal resins.

18. A method for the acoustic attenuation of noises of structure-borne origin in an article of manufacture, comprising installing a window made of at least one glass sheet and one intermediate film, wherein the intermediate film of the laminated window has a loss factor  $\tan \delta$  greater than 0.6 and a shear modulus  $G'$  smaller than  $2 \times 10^7 \text{ N/cm}^2$  in a temperature range between 10 and  $60^{\circ}\text{C}$  and in a frequency range between 50 and 10,000 Hz in said article.